US012091225B2

(12) **United States Patent**
Royal

(10) **Patent No.: US 12,091,225 B2**
(45) **Date of Patent: *Sep. 17, 2024**

(54) **BOTTLE PACKAGING ASSEMBLY**

(71) Applicant: **Pratt Corrugated Holdings, Inc.**, Brookhaven, GA (US)

(72) Inventor: **Austin Thomas Royal**, Snellville, GA (US)

(73) Assignee: **Pratt Corrugated Holdings, Inc.**, Brookhaven, GA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **18/209,910**

(22) Filed: **Jun. 14, 2023**

(65) **Prior Publication Data**

US 2023/0322434 A1 Oct. 12, 2023

Related U.S. Application Data

(63) Continuation of application No. 17/511,814, filed on Oct. 27, 2021, now Pat. No. 11,713,155.
(Continued)

(51) **Int. Cl.**
B65D 5/50 (2006.01)
B65D 5/497 (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC ***B65D 5/48044*** (2013.01); ***B65D 81/05*** (2013.01); ***B65D 85/30*** (2013.01); *B65D 2581/051* (2013.01)

(58) **Field of Classification Search**
CPC B65D 71/24; B65D 71/243; B65D 71/06; B65D 71/00; B65D 81/02; B65D 81/05;
(Continued)

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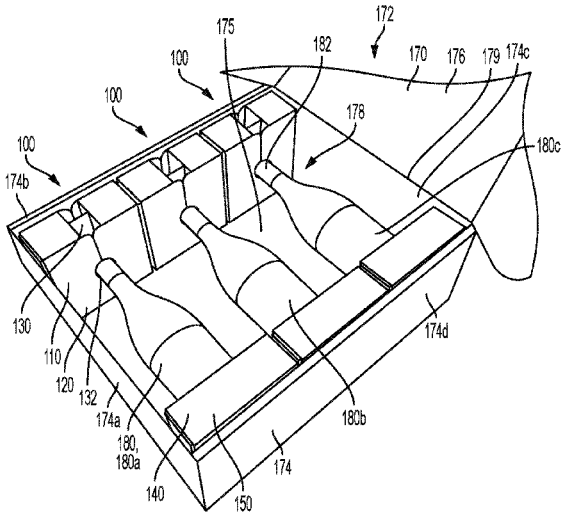
Primary Examiner — King M Chu
(74) *Attorney, Agent, or Firm* — Taylor English Duma LLP

(57) **ABSTRACT**

A bottle packaging assembly includes a bottle packaging comprising a sidewall enclosure, the sidewall enclosure defining an interior cavity and comprising a first sidewall and a second sidewall opposite the first sidewall; a plurality of bottle insert assemblies arranged laterally side-by-side within the interior cavity, wherein each of the bottle insert assemblies comprises: a first bottle insert arranged proximate to the first sidewall and defining a first bottle opening configured to receive a first portion of a bottle; and a second bottle insert arranged proximate to the second sidewall and longitudinally aligned with the first bottle insert, the second bottle insert defining a second bottle opening configured to receive a second portion of the bottle.

10 Claims, 8 Drawing Sheets



Related U.S. Application Data

(60) Provisional application No. 63/111,417, filed on Nov. 9, 2020.

(51) **Int. Cl.**
B65D 81/05 (2006.01)
B65D 85/30 (2006.01)

(58) **Field of Classification Search**
CPC B65D 2581/051; B65D 85/30; B65D 5/48044
USPC 206/427, 196
See application file for complete search history.

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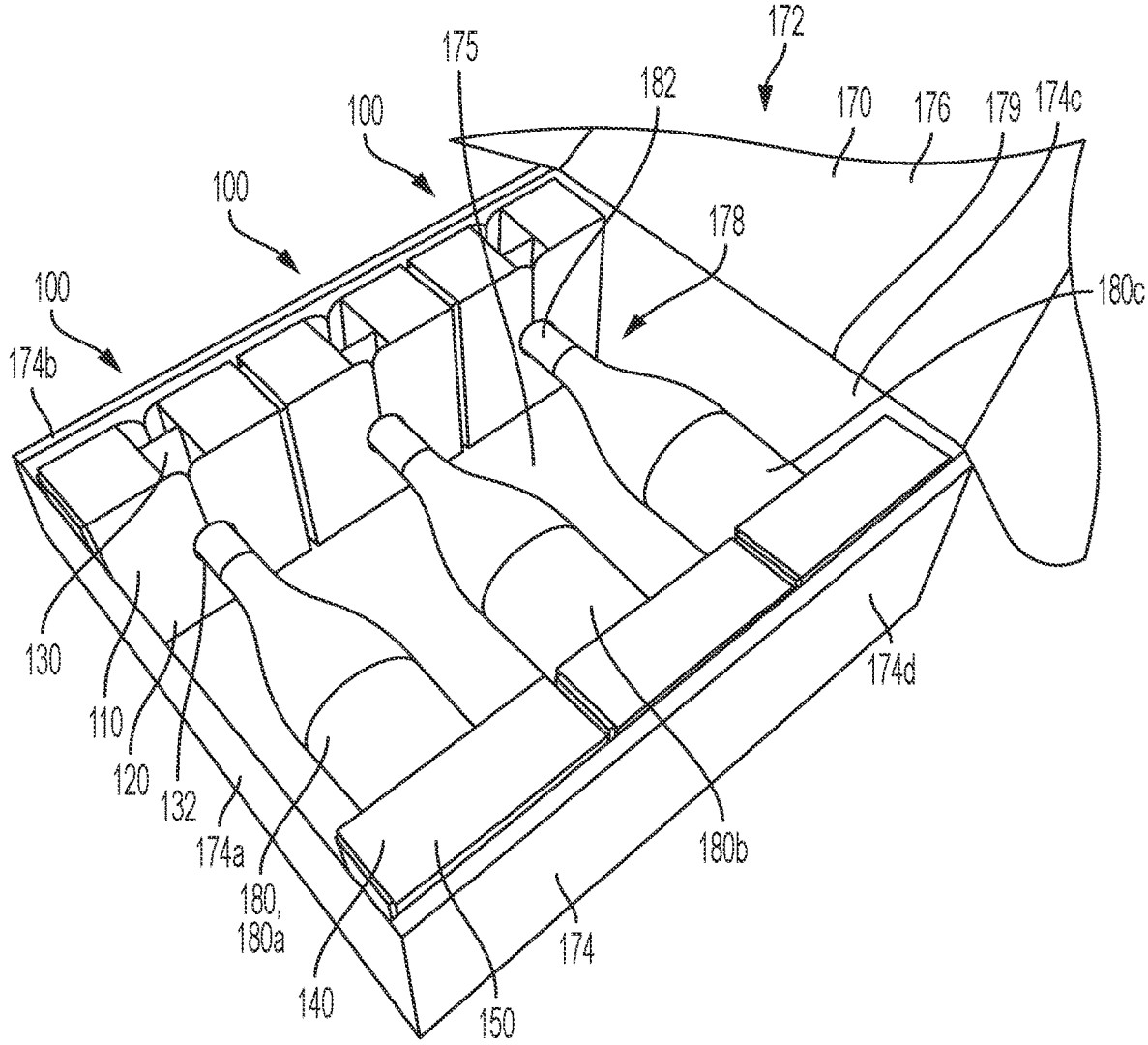
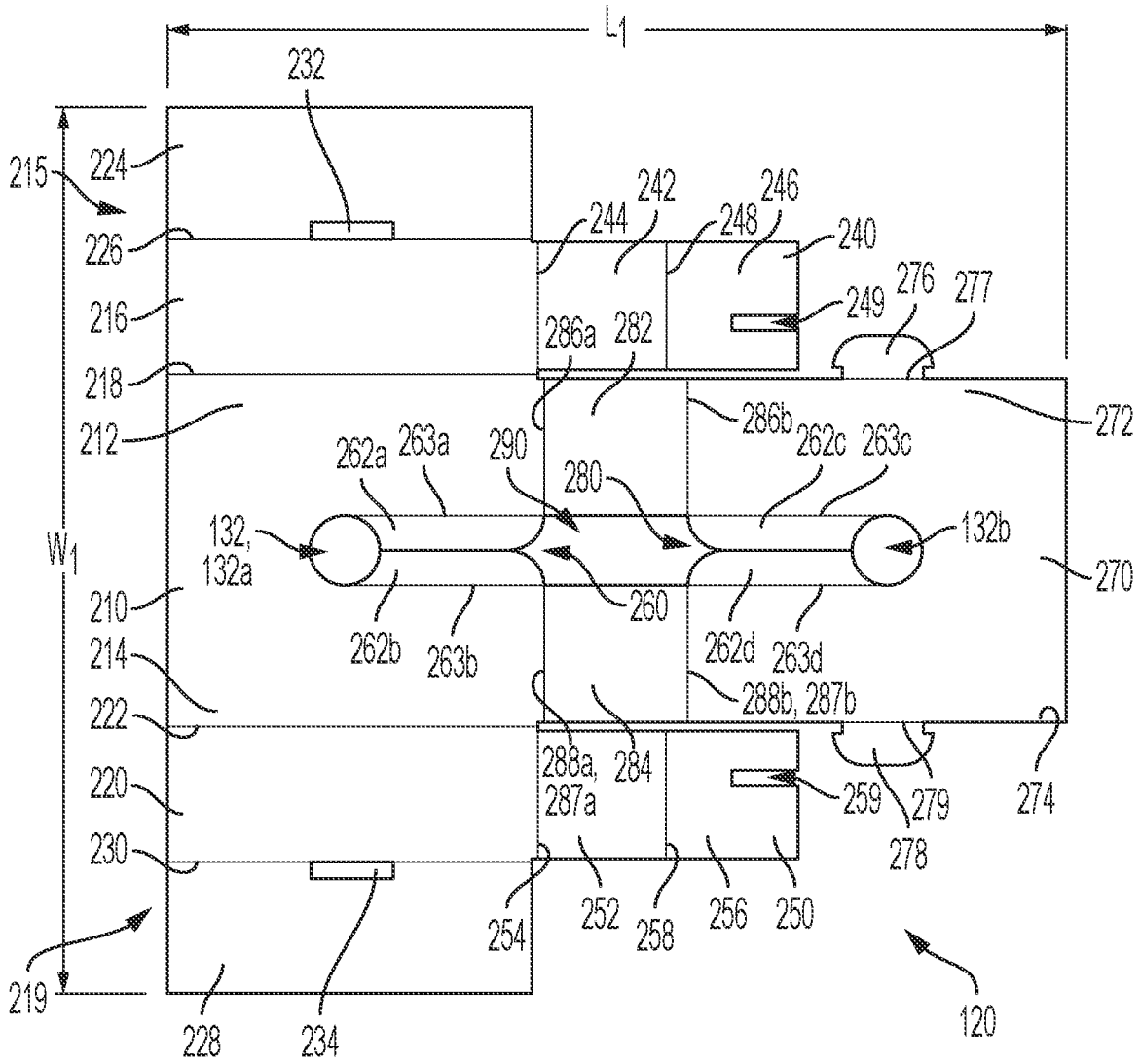

172
175
182
100
170
176
179
174c
100
178
100
180c
174b
130
110
120
132
174a
180,
180a
140
150
174
180b
174d

FIG. 1


L1
W1
232
215
224
226
216
218
212
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214
222
220
230
219
228
234
242
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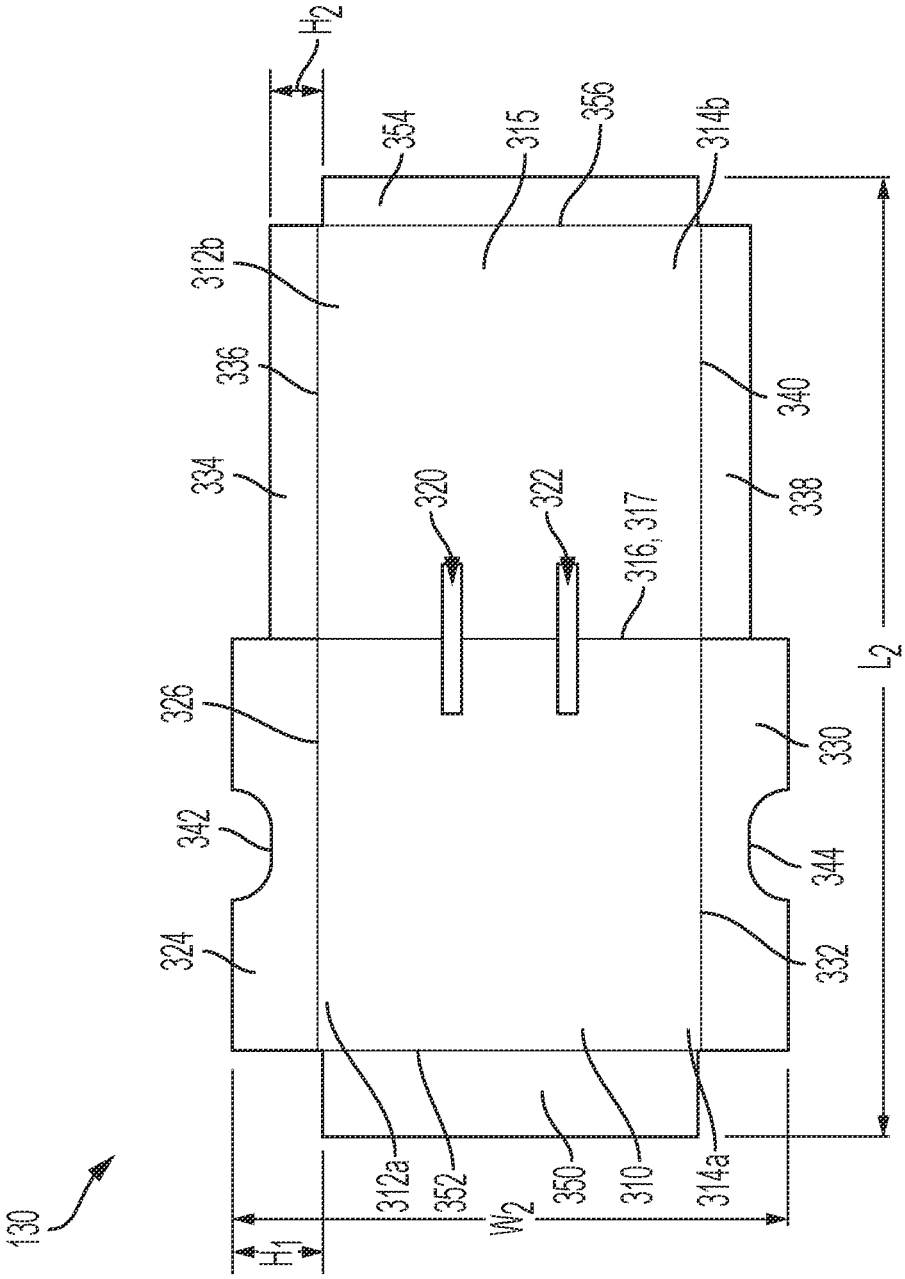
244
248
240
249
276
277
286a
282
290
286b
272
262a
263a
262c
263c
280
132,
132a
132b
270
260
262b
263b
262d
263d
288b, 287b
288a,
287a
284
259
279
278
274
254
252
258
256
250
120

FIG. 2


130
H1
H2
W2
L2
312a
312b
314a
314b
310
315
316, 317
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338
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342
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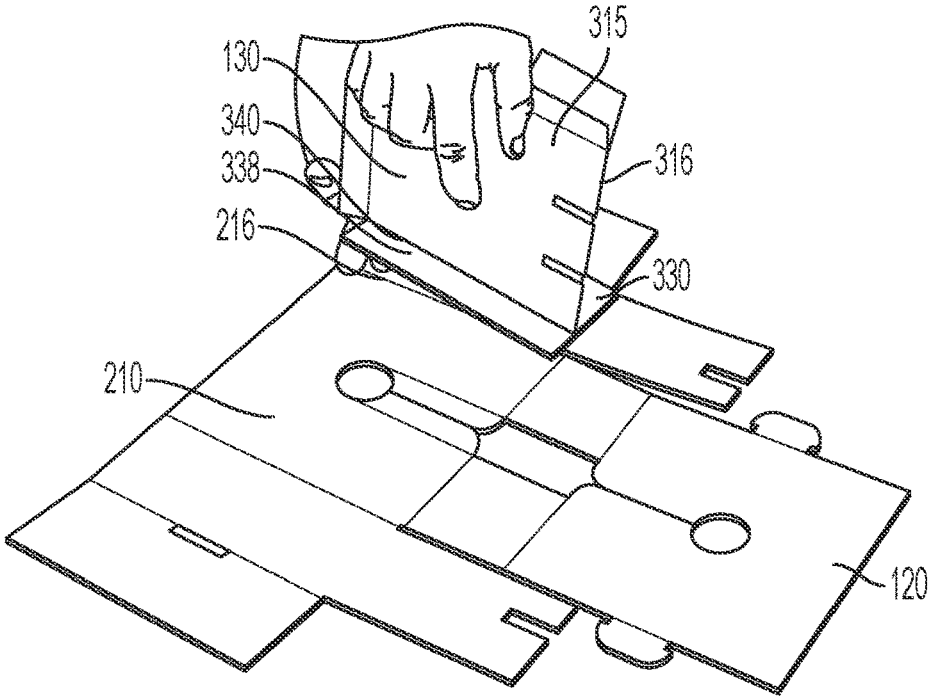
356

FIG. 3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316
216
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210
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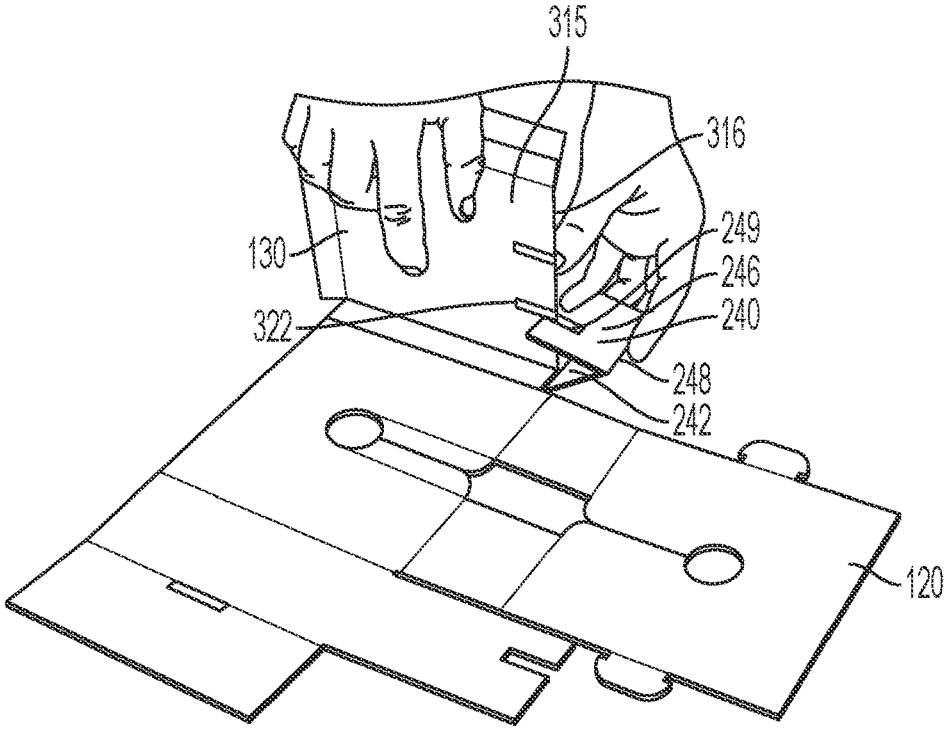
FIG. 4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316
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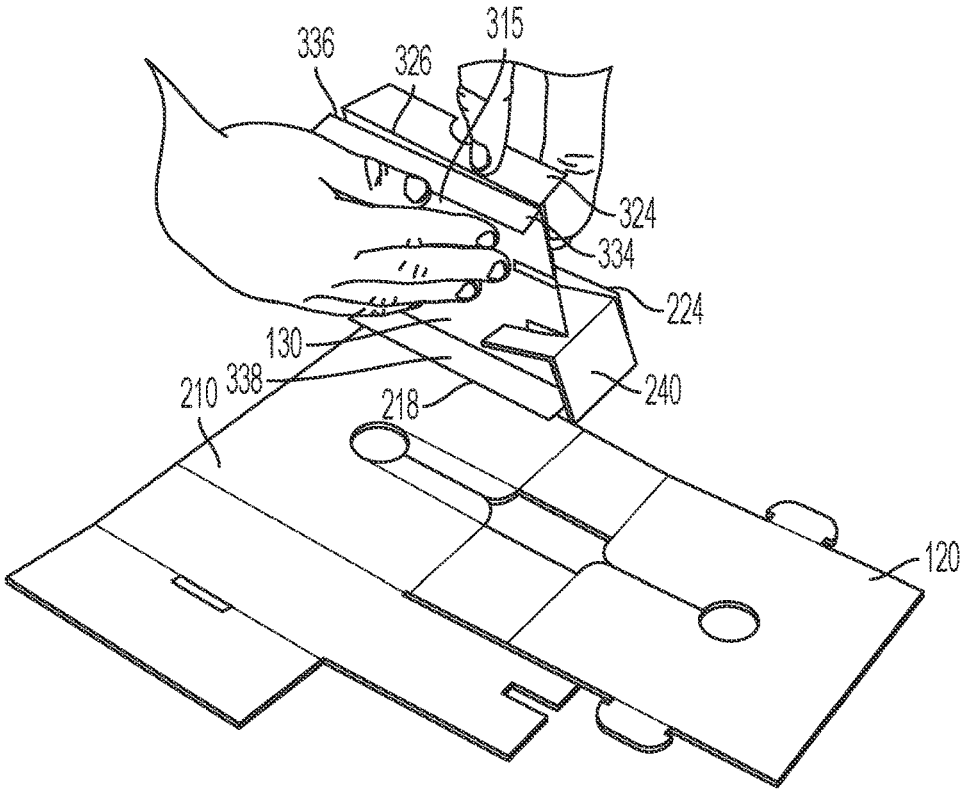
FIG. 5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210
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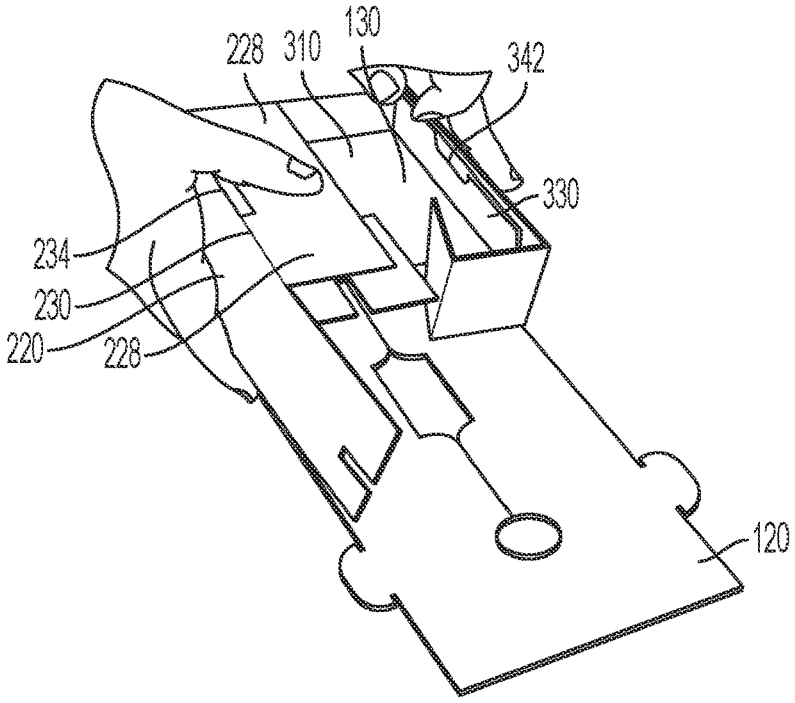
240
120

FIG. 6


228
310
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234
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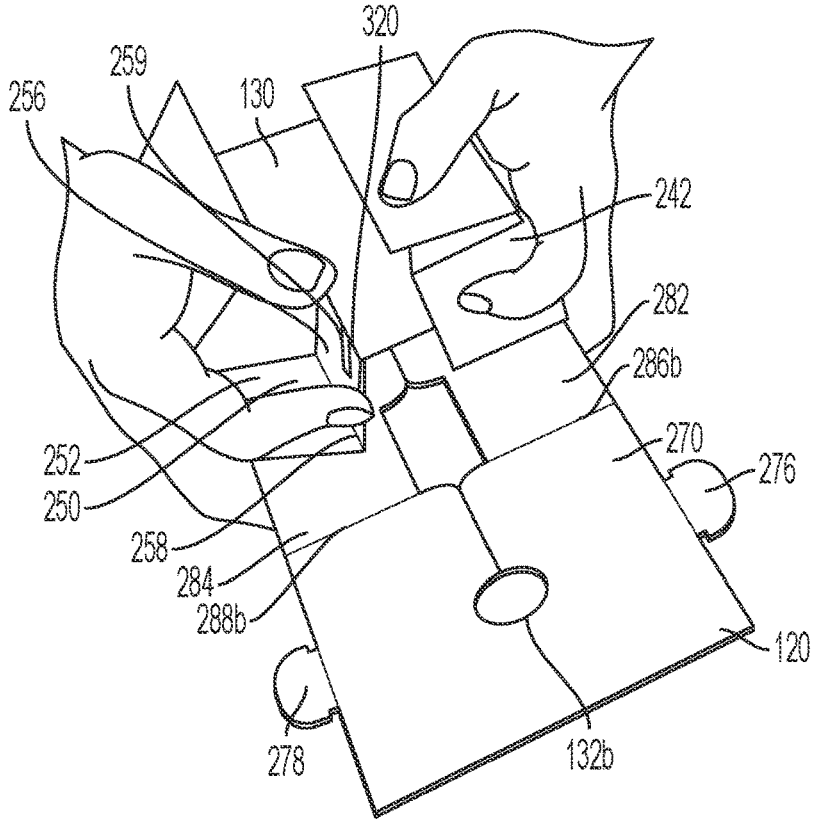
220
228
120

FIG. 7


320
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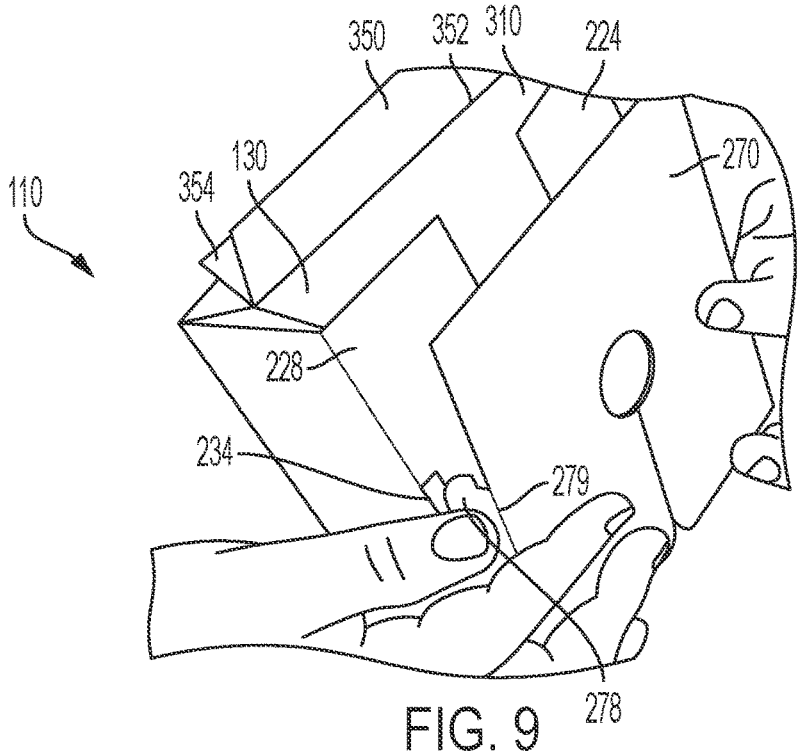
242
282
286b
270
276
252
250
258
284
288b
120
278
132b

FIG. 8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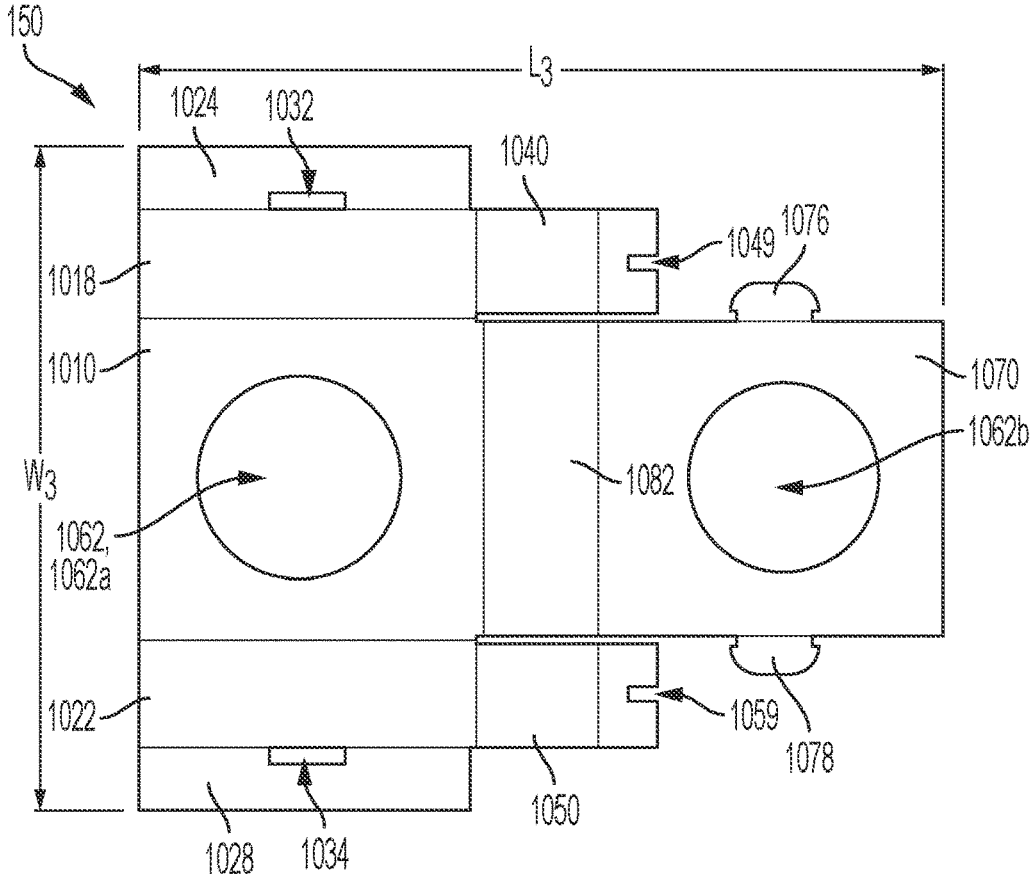
234
279
278

FIG. 9


150
L_3
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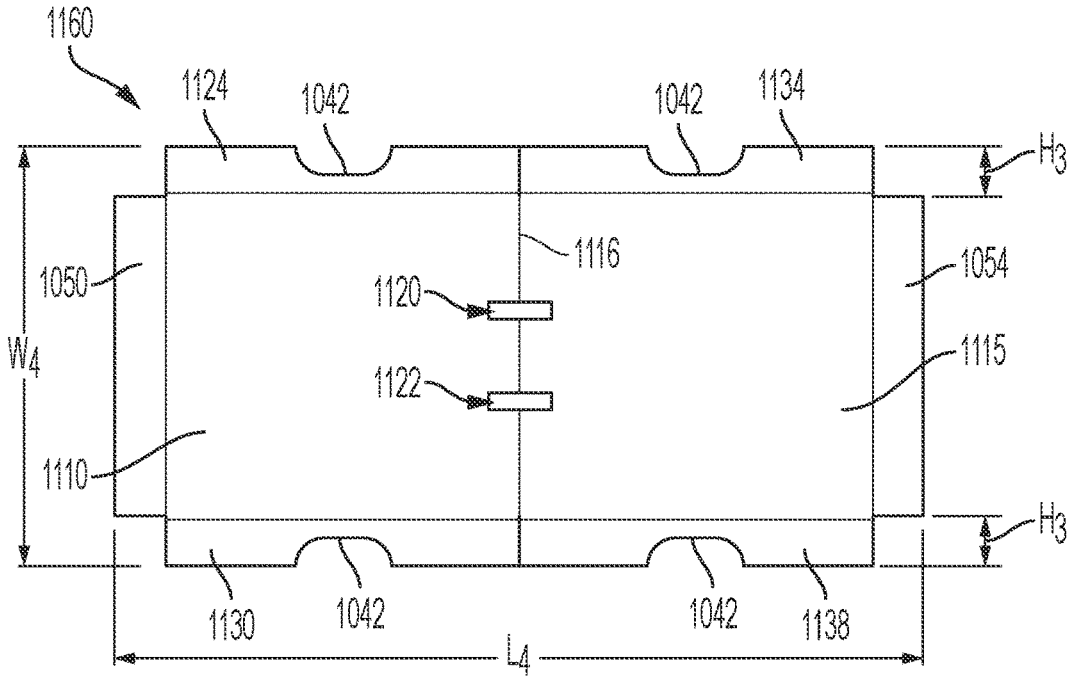
1032
1040
1049
1076
1018
1010
1070
1062b
W_3
1082
1062,
1062a
1022
1059
1078
1050
1028
1034

FIG. 10


1160
1124
1042
1042
1134
H_3
1116
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W_4
1122
1115
1110
H_3
1130
1042
1042
1138
L_4

FIG. 11

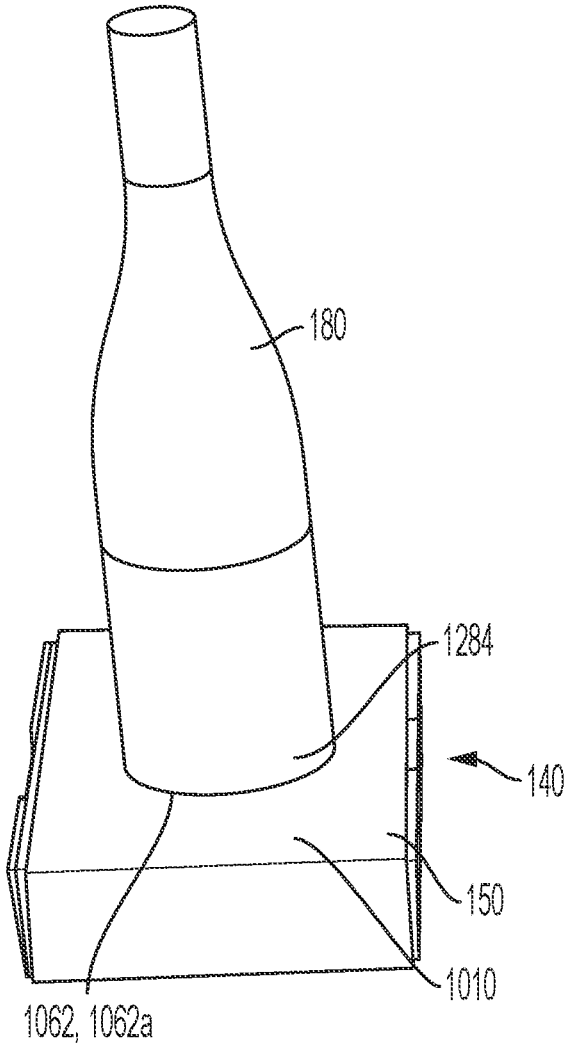

FIG. 12

BOTTLE PACKAGING ASSEMBLY

CROSS-REFERENCE TO RELATED APPLICATIONS

The present application is a continuation of U.S. application Ser. No. 17/511,814, filed Oct. 27, 2021, which claims the benefit of U.S. Application No. 63/111,417, filed Nov. 9, 2020, each of which is hereby specifically incorporated by reference herein in its entirety

TECHNICAL FIELD

This disclosure relates to packaging. More specifically, this disclosure relates to a bottle insert assembly for bottle packaging.

BACKGROUND

Bottles, such as wine bottles, beer bottles, liquor bottles, water bottles, etc., can be transported in packaging from one place to another. However, bottles not sufficiently restrained within the packaging can move within the packaging, which can result in damage to the bottles and/or the packing. Additionally, the packaging can be bumped or jarred during transportation, which can result in damage to the bottles therein. The packing can also be compressed, crushed, or otherwise damaged during transportation, which can result in the packing providing insufficient support or cushioning to the bottles therein.

SUMMARY

It is to be understood that this summary is not an extensive overview of the disclosure. This summary is exemplary and not restrictive, and it is intended neither to identify key or critical elements of the disclosure nor delineate the scope thereof. The sole purpose of this summary is to explain and exemplify certain concepts of the disclosure as an introduction to the following complete and extensive detailed description.

Disclosed is a bottle insert assembly comprising an upper bottle insert comprising an upper insert body and an upper insert partition, the upper insert body defining an upper bottle opening therethrough; and a lower bottle insert comprising a lower insert body and a lower insert partition, the lower insert body defining a lower bottle opening therethrough.

Also disclosed is a bottle insert comprising an insert body defining a bottle opening, the bottle opening configured to receive a portion of a bottle therethrough; and an insert partition disposed substantially within the insert body, the insert partition defining a partition wall, the partition wall aligned with and spaced from the bottle opening, the partition wall configured to confront an end of the bottle.

Additionally, disclosed is a bottle insert assembly comprising a first bottle insert comprising a first insert body and a first insert partition disposed substantially within the first insert body, the first insert body defining a first bottle opening, the first bottle opening configured to receive a first portion of a bottle therethrough, the first insert partition configured to confront a first end of the bottle; and a second bottle insert comprising a second insert body and a second insert partition disposed substantially within the second insert body, the second insert body defining a second bottle opening, the second bottle opening configured to receive a second portion of a bottle therethrough, the second insert partition configured to confront a second end of the bottle.

A bottle packaging assembly is disclosed, the bottle packaging assembly comprising a bottle packaging comprising a sidewall enclosure, the sidewall enclosure defining an interior cavity and comprising a first sidewall and a second sidewall opposite the first sidewall; a plurality of bottle insert assemblies arranged laterally side-by-side within the interior cavity, wherein each of the bottle insert assemblies comprises: a first bottle insert arranged proximate to the first sidewall and defining a first bottle opening configured to receive a first portion of a bottle; and a second bottle insert arranged proximate to the second sidewall and longitudinally aligned with the first bottle insert, the second bottle insert defining a second bottle opening configured to receive a second portion of the bottle.

Further, disclosed is a method of packaging a bottle comprising providing a bottle packaging assembly comprising a first bottle insert defining a first bottle opening and a second bottle insert defining a second bottle opening, wherein the first bottle insert and the second bottle insert are arranged within an interior cavity of a bottle packaging; receiving a second portion of the bottle through the second bottle opening; and receiving a first portion of the bottle through the first bottle opening.

Also disclosed is a method of assembling a bottle packaging assembly comprising folding a first bottle insert to an assembled configuration, the first bottle insert comprising a first base panel, the first base panel defining a first bottle opening configured to receive a first portion of a bottle; folding a second bottle insert to an assembled configuration, the second bottle insert comprising a second base panel, the second base panel defining a second bottle opening configured to receive a second portion of a bottle; arranging the first bottle insert proximate to a first sidewall of a sidewall enclosure of a bottle packaging; and arranging the second bottle insert proximate to a second sidewall of the sidewall enclosure, wherein the second sidewall is opposite the first sidewall, and wherein the second bottle insert is longitudinally aligned with the first bottle insert

Various implementations described in the present disclosure may include additional systems, methods, features, and advantages, which may not necessarily be expressly disclosed herein but will be apparent to one of ordinary skill in the art upon examination of the following detailed description and accompanying drawings. It is intended that all such systems, methods, features, and advantages be included within the present disclosure and protected by the accompanying claims.

BRIEF DESCRIPTION OF THE DRAWINGS

The features and components of the following figures are illustrated to emphasize the general principles of the present disclosure. Corresponding features and components throughout the figures may be designated by matching reference characters for the sake of consistency and clarity.

FIG. **1** is a top perspective view of a plurality of bottle insert assemblies assembled with a bottle packaging, in accordance with one aspect of the present disclosure, wherein each of the bottle insert assemblies comprise an upper bottle and a lower bottle insert.

FIG. **2** is a top plan view of an upper insert body of one of the upper insert assemblies of FIG. **1**, wherein the upper insert body is in blank form.

FIG. **3** is a top plan view of an upper insert partition of one of the upper insert assemblies of FIG. **1**, wherein the upper insert partition is in blank form.

FIG. **4** is a top perspective view of a first step in assembling the upper insert partition of FIG. **3** with the upper insert body of FIG. **2**.

FIG. **5** is a top perspective view of a second step in assembling the upper insert partition of FIG. **3** with the upper insert body of FIG. **2**.

FIG. **6** is a top perspective view of a third step in assembling the upper insert partition of FIG. **3** with the upper insert body of FIG. **2**.

FIG. **7** is a top perspective view of a fourth step in assembling the upper insert partition of FIG. **3** with the upper insert body of FIG. **2**.

FIG. **8** is a top perspective view of a fifth step in assembling the upper insert partition of FIG. **3** with the upper insert body of FIG. **2**.

FIG. **9** is a top perspective view of a sixth and final step in assembling the upper insert partition of FIG. **3** with the upper insert body of FIG. **2** to define the upper bottle insert of FIG. **1**.

FIG. **10** is a top plan view of a lower insert body of one of the lower insert assemblies of FIG. **1**, wherein the lower insert body is in blank form.

FIG. **11** is a top plan view of a lower insert partition of one of the lower insert assemblies of FIG. **1**, wherein the lower insert partition is in blank form.

FIG. **12** is a top perspective view of a bottle engaged with an assembled one of the lower insert assemblies of FIG. **1**.

DETAILED DESCRIPTION

The present disclosure can be understood more readily by reference to the following detailed description, examples, drawings, and claims, and the previous and following description. However, before the present devices, systems, and/or methods are disclosed and described, it is to be understood that this disclosure is not limited to the specific devices, systems, and/or methods disclosed unless otherwise specified, and, as such, can, of course, vary. It is also to be understood that the terminology used herein is for the purpose of describing particular aspects only and is not intended to be limiting.

The following description is provided as an enabling teaching of the present devices, systems, and/or methods in its best, currently known aspect. To this end, those skilled in the relevant art will recognize and appreciate that many changes can be made to the various aspects of the present devices, systems, and/or methods described herein, while still obtaining the beneficial results of the present disclosure. It will also be apparent that some of the desired benefits of the present disclosure can be obtained by selecting some of the features of the present disclosure without utilizing other features. Accordingly, those who work in the art will recognize that many modifications and adaptations to the present disclosure are possible and can even be desirable in certain circumstances and are a part of the present disclosure. Thus, the following description is provided as illustrative of the principles of the present disclosure and not in limitation thereof.

As used throughout, the singular forms "a," "an" and "the" include plural referents unless the context clearly dictates otherwise. Thus, for example, reference to "an element" can include two or more such elements unless the context indicates otherwise.

Ranges can be expressed herein as from "about" one particular value, and/or to "about" another particular value. When such a range is expressed, another aspect includes from the one particular value and/or to the other particular value. Similarly, when values are expressed as approximations, by use of the antecedent "about," it will be understood that the particular value forms another aspect. It will be further understood that the endpoints of each of the ranges are significant both in relation to the other endpoint, and independently of the other endpoint.

For purposes of the current disclosure, a material property or dimension measuring about X or substantially X on a particular measurement scale measures within a range between X plus an industry-standard upper tolerance for the specified measurement and X minus an industry-standard lower tolerance for the specified measurement. Because tolerances can vary between different materials, processes and between different models, the tolerance for a particular measurement of a particular component can fall within a range of tolerances.

As used herein, the terms "optional" or "optionally" mean that the subsequently described event or circumstance can or cannot occur, and that the description includes instances where said event or circumstance occurs and instances where it does not.

The word "or" as used herein means any one member of a particular list and also includes any combination of members of that list. Further, one should note that conditional language, such as, among others, "can," "could," "might," or "may," unless specifically stated otherwise, or otherwise understood within the context as used, is generally intended to convey that certain aspects include, while other aspects do not include, certain features, elements and/or steps. Thus, such conditional language is not generally intended to imply that features, elements and/or steps are in any way required for one or more particular aspects or that one or more particular aspects necessarily include logic for deciding, with or without user input or prompting, whether these features, elements and/or steps are included or are to be performed in any particular aspect.

Disclosed are components that can be used to perform the disclosed methods and systems. These and other components are disclosed herein, and it is understood that when combinations, subsets, interactions, groups, etc. of these components are disclosed that while specific reference of each various individual and collective combinations and permutations of these may not be explicitly disclosed, each is specifically contemplated and described herein, for all methods and systems. This applies to all aspects of this application including, but not limited to, steps in disclosed methods. Thus, if there are a variety of additional steps that can be performed it is understood that each of these additional steps can be performed with any specific aspect or combination of aspects of the disclosed methods.

Disclosed is a bottle insert assembly and associated methods, systems, devices, and various apparatus. Example aspects of the bottle insert assembly can comprise an upper bottle insert configured to retrain an upper portion of a bottle and a lower bottle insert configured to restrain a lower portion of the bottle. It would be understood by one of skill in the art that the bottle insert assembly is described in but a few exemplary embodiments among many. No particular terminology or description should be considered limiting on the disclosure or the scope of any claims issuing therefrom.

FIG. **1** is a top perspective view of a plurality of bottle insert assemblies **100** assembled with a bottle packaging **170**, in accordance with one aspect of the present disclosure.

In the present aspect, the bottle packaging **170** can be a box **172** comprising a sidewall enclosure **174**, a bottom wall **175**, and a lid **176**. Example aspects of the sidewall enclosure **174** can comprise first, second, third, and fourth sidewalls **174***a-d*, as shown, though other aspects can comprise more or fewer sidewalls. The sidewall enclosure **174** and bottom wall **175** can define an interior cavity **178** of the box **172**. The lid **176** can be hingedly coupled to the sidewall enclosure **174** to selectively cover and uncover an opening **179** allowing access to the box **172**. The box **172** can be configured to house one or more bottles **180** within the interior cavity **178**; for example, in the present aspect, the box **172** can be configured to house three wine bottles **180***a-c*. In other aspects, the box **172** can be configured to house more or fewer bottles **180**, and the bottles **180** can be any suitable type of bottle known in the art, including, but not limited, beer bottles, liquor bottles, soda bottles, water bottles, and the like.

As shown, each of the bottle insert assemblies **100** can be configured to restrain a corresponding one of the bottles **180** within the interior cavity **178**. According to example aspects, each bottle insert assembly **100** can comprise an upper bottle insert **110** configured to restrain an upper portion **182** of the bottle **180** and a lower bottle insert **140** configured to restrain a lower portion **1284** (shown in FIG. **12**) of the bottle **180**. According to example aspects, each bottle insert assembly **100** can be configured to space the corresponding bottle **180** a minimum distance from each of the sidewalls **174***a-d*, bottom wall **175**, and lid **176**. For example, in the present aspect, each bottle insert assembly **100** can be configured to space the corresponding bottle **180** a minimum distance of ¾" from each of the sidewalls **174***a-d*, bottom wall **175**, and lid **176**. In other aspects, the minimum distance can be lesser or greater than ¾". In example aspects, each upper bottle insert **110** can comprise an upper insert body **120** and an upper insert partition **130** generally received within the upper insert body **120**. Similarly, each lower bottle insert **140** can comprise a lower insert body **150** and a lower insert partition **1160** (shown in FIG. **11**) generally received within the lower insert body **150**. In some aspects, an upper end (not shown) of the corresponding bottle **180** can abut the upper insert partition **130** and a lower end (not shown) of the bottle **180** can abut the lower insert partition **1160** to substantially prevent or limit longitudinal movement of the bottle **180** within the interior cavity **178**. Furthermore, the upper portion **182** of the bottle **180** can be received through an upper bottle opening **132** of the upper insert body **120**, and the lower portion **1284** of the bottle **180** can be received through a lower bottle opening **1062** (shown in FIG. **10**) of the lower insert body **150**. Each of the upper bottle opening **132** and lower bottle opening **1062** can be sized to substantially prevent or limit lateral and/or rotational movement of the bottle **180** within the interior cavity **178**.

FIG. **2** illustrates the upper insert body **120** of the upper bottle insert **110** (shown in FIG. **1**) in blank form, according to an example aspect of the present disclosure. In blank form, the upper bottle insert **110** can define an overall width W_1 and an overall length L_1. In a particular example aspect, the width W_1 can be about 13.5" and the length L_1 can be about 13.6875". In other aspects, the upper insert body **120** can define any other suitable dimensions. As shown, the upper insert body **120** can define a lower base panel **210** and an upper base panel **270**. The upper base panel **270** and lower base panel **210** can be connected by a first connecting panel **282** and a second connecting panel **284**. In example aspects, the first connecting panel **282** can be hingedly connected to the lower base panel **210** by a first connecting bend line **286***a* and to the upper base panel **270** by a first connecting bend line **286***b*. Similarly, the second connecting panel **284** can be hingedly connected to the lower base panel **210** by a second connecting bend line **288***a* and to the upper base panel **270** by a second connecting bend line **288***b*. Thus, as shown, the first and second connecting bend lines **286***a*, **288***a* can be formed at an inner panel edge **287***a* of the lower base panel **210**, and similarly, the first and second connecting bend lines **286***b*, **288***b* can be formed at an inner panel edge **287***b* of the upper base panel **270**. A gap **290** can be defined between the first and second connecting panels **282**, **284**, as shown.

The lower base panel **210** can define a first side **212** and an opposite second side **214**. A first side panel assembly **215** can extend from the first side **212**, and a second side panel assembly **219** can extend from the second side **214**. The first side panel assembly **215** can comprise a first intermediate panel **216** that can be hingedly connected to the first side **214** of the lower base panel **210** at a first intermediate bend line **218**. The second side panel assembly **219** can comprise a second intermediate panel **220** that can be hingedly connected to the second side **214** of the lower base panel **210** at a second intermediate bend line **222**. The first side panel assembly **215** can further comprise a first outer panel **224** that can be hingedly connected to the first intermediate panel **216** distal to the lower base panel **210** at a first outer bend line **226**. Similarly, the second side panel assembly **219** can further comprise a second outer panel **228** that can be hingedly connected to the second intermediate panel **220** distal to the lower base panel **210** at a second outer bend line **230**. According to example aspects, the first side panel assembly **215** can define a first locking slot **232** at or near the first outer bend line **226**. In the present aspect, the first locking slot **232** can be defined through the first outer panel **224** at the first outer bend line **226**. The second side panel assembly **219** can define a second locking slot **234** at or near the second outer bend line **230**. In the present aspect, the second locking slot **234** can be defined through the outer panel **228** at the second outer bend line **230**. Each of the first and second locking slots **232**, **234** can be oriented substantially centrally along a length of the corresponding first and second outer bend lines **226**, **230**.

According to example aspects, a first auxiliary flap **240** can extend from the first intermediate panel **216** between the lower base panel **210** and the first outer panel **224**. The first auxiliary flap **240** can extend generally in the direction of the upper base panel **270**. Furthermore, the first auxiliary flap **240** can define a first auxiliary section **242** hingedly connected to the first intermediate panel **216** by a first auxiliary bend line **244** and a second auxiliary section **246** hingedly connected to the first auxiliary section **242** distal to the first intermediate panel **216** by a second auxiliary bend line **248**. A first auxiliary slot **249** can extend into the second auxiliary section **246** distal to the first auxiliary section **242**, as shown. Moreover, a second auxiliary flap **250** can extend from the second intermediate panel **220** between the lower base panel **210** and the second outer panel **228**, which can be substantially similar to the first auxiliary flap **240**. The second auxiliary flap **250** can extend generally in the direction of the upper base panel **270**. The second auxiliary flap **250** can define a third auxiliary section **252** hingedly connected to the second intermediate panel **220** by a third auxiliary bend line **254** and a fourth auxiliary section **256** hingedly connected to the third auxiliary section **252** distal to the second intermediate panel **220** by a fourth auxiliary bend line **258**.

A second auxiliary slot **259** can extend into the fourth auxiliary section **256** distal to the second auxiliary section **246**, as shown.

The upper bottle insert **110** can define one or more of the upper bottle openings **132**. In the present aspect, the lower base panel **210** can define a first one of the upper bottle openings **132** formed substantially through a center thereof. The lower base panel **210** can further define a first bottle channel **260** extending from a first upper bottle opening **132***a* to the inner panel edge **287***a* and the corresponding gap **290** defined between the first and second connecting panels **282**, **284**. In example aspects, first and second channel tabs **262***a,b* can be hingedly connected to and extend from the lower base panel **210** into the first bottle channel **260** at first and second channel bend lines **263***a,b*, respectively. Each of the first and second channel tabs **262***a,b* can extend from the first upper bottle opening **132***a* to the inner panel edge **287***a* and the gap **290**. In the present configuration, the first and second channel tabs **262***a,b* can substantially cover the first bottle channel **260**, as shown. According to example aspects, the upper portion **182** (shown in FIG. **1**) of a corresponding one of the bottles **180** (shown in FIG. **1**) can engage the first upper bottle opening **132***a* either by inserting the upper portion **182** directly through the first upper bottle opening **132***a* or by sliding the upper portion **182** through the first bottle channel **260** and into the first upper bottle opening **132***a*. The first and second channel tabs **262***a,b* can be folded away from the first bottle channel **260** relative to the lower base panel **210** at the corresponding first and second channel bend lines **263***a,b* to allow access through the first bottle channel **260**. The upper portion **182** of the bottle **180** can be removed from the first upper bottle opening **132***a* by the same method.

According to example aspects, the upper base panel **270** can be substantially similar to the lower base panel **210**. For example, the upper base panel **270** can comprise a second one of the upper bottle openings **132***b* formed substantially through a center thereof. The upper base panel **270** can further define a second bottle channel **280** extending from the second upper bottle opening **132***b* to the inner panel edge **287***b* and the corresponding gap **290**. Third and fourth channel tabs **262***c,d* can be hingedly connected to and extend from the upper base panel **270** into the second bottle channel **280** at third and fourth channel bend lines **263***c,d*, respectively. Each of the third and fourth channel tabs **262***c,d* can extend from the second upper bottle opening **132***b* to the inner panel edge **287***b* and the gap **290**. Furthermore, as shown, the upper base panel **270** can define a first side **272** and an opposite second side **274**. In example aspects, a first locking tab **276** can be hingedly connected to and extend from the first side **272** of the upper base panel **270** at a first tab bend line **277** and a second locking tab **278** can be hingedly connected to and extend from the second side **274** of the upper base panel **270** at a second tab bend line **279**.

FIG. **3** illustrates the upper insert partition **130** of the upper bottle insert **110** (shown in FIG. **1**) in blank form, according to an example aspect of the present disclosure. In blank form, the upper insert partition **130** can define an overall width W_2 and an overall length L_2. In a particular example, aspect, the width W_2 can be about 6.5625" and the length L_2 can be about 12.625". In other aspects, the upper insert partition **130** can define any other suitable dimensions. According to example aspects, the upper insert partition **130** can define a first partition wall **310** and a second partition wall **315** hingedly connected to the first partition wall **310** at a partition wall bend line **316**. The partition wall bend line **316** can define an inner partition edge **317** of each of the first and second partition walls **310**, **315**. A first partition slot **320** and a second partition slot **322** can each extend across and be oriented perpendicular to the partition wall bend line **316**, as shown. Each of the first partition wall **310** and second partition wall **315** can define a first side **312***a,b*, and a second side **314***a,b*, respectively. A first large spacer flap **324** can be hingedly connected to and can extend from the first side **312***a* of the first partition wall **310** at a first large spacer bend line **326**, and a first small spacer flap **334** can be hingedly connected to and can extend from the first side **312***b* of the second partition wall **315** at a first small spacer bend line **336**. The first large spacer flap **324** can be oriented adjacent to the first small spacer flap **334**. Similarly, a second large spacer flap **330** can be hingedly connected to and can extend from the second side **314***a* of the first partition wall **310** at second large spacer bend line **332**, and a second small spacer flap **338** can be hingedly connected to and can extend from the second side **314***b* of the second partition wall **315** at a second small spacer bend line **340**. Each of the first and second large spacer flaps **324**, **330** can define a height H_1 that can be greater than a height Hz of each of the first and second small spacer flaps **334**, **338**. In some aspects, the first large spacer flap **324** and the second large spacer flap **330** can define a first locking cut-out **342** and a second locking cut-out **344**, respectively, distal to the corresponding first and second large spacer bend lines **326**, **332**, respectively. Furthermore, a first end flap **350** can be hingedly connected to and can extend from the first partition wall **310** distal to the second partition wall **315** at a first end bend line **352**, and a second end flap **354** can be hingedly connected to and can extend from the second partition wall **315** distal to the first partition wall **310** at a second end bend line **356**.

FIGS. **4-9** illustrate a method of the assembling the upper insert partition **130** with the upper insert body **120** to define the upper bottle insert **110** shown in FIG. **1**. Referring to FIG. **4**, according to example aspects, the first partition wall **310** (shown in FIG. **3**) of the upper insert partition **130** can be folded towards the second partition wall **315** at the partition wall bend line **316**. The second large spacer flap **330** and second small spacer flap **338** can be folded away from one another at the second large spacer bend line **332** (shown in FIG. **3**) and the second small spacer bend line **340**, respectively, such that the second large spacer flap **330** and second small spacer flap **338** can be oriented about perpendicular to the first partition wall **310** and second partition wall **315** and about parallel with one another. The second large spacer flap **330** and second small spacer flap **338** can engage and lie substantially flat against the first intermediate panel **216** of the upper insert body **120**.

Referring to FIG. **5**, the first auxiliary flap **240** can be folded towards the upper insert partition **130** at each of the first auxiliary bend line **244** (shown in FIG. **2**) and the second auxiliary bend line **248**. The first auxiliary slot **249** of the first auxiliary flap **240** can engage the second partition slot **322** of the upper insert partition **130** to retain the first auxiliary flap **240** in position relative to the upper insert partition **130**. Once in this configuration, the first auxiliary section **242** can be oriented at about 90° relative to the first intermediate panel **216** (shown in FIG. **2**), and the second auxiliary section **246** can be oriented at about 90° relative to the first auxiliary section **242**.

Referring to FIG. **6**, the first large spacer flap **224** and the first small spacer flap **334** can then be folded away from one another at the first large spacer bend line **326** and the first small spacer bend line **336**, respectively, such that the first large and small spacer flaps **224**, **334** can be oriented about perpendicular with the first and second partition walls **310**,

315 (first partition wall 310 shown in FIG. 3) and about parallel with one another. The first outer panel 224 can also be folded at the first outer bend line 226 (shown in FIG. 2) towards the upper insert partition 130, such that the first outer panel 224 can be oriented at about 90° relative to the first intermediate panel 216 (shown in FIG. 2). In a next step, the first intermediate panel 216 can be folded at the first intermediate bend line 218 towards the lower base panel 210, such the first intermediate panel 216 can be oriented at about 90° relative to the lower base panel 210 and the second partition wall 315 of the upper insert partition 130 can face and be substantially parallel with the lower base panel 210. The first small spacer flap 334 and second small spacer flap 338 can extend between the lower base panel 210 and the second partition wall 315, to space the second partition wall 315 from the lower base panel 210 by the height H_2 (shown in FIG. 3).

Referring to FIG. 7, the second intermediate panel 220 can then be folded at the second intermediate bend line 222 (shown in FIG. 2) towards the upper insert partition 130, such the second intermediate panel 220 can be oriented at about 90° relative to the lower base panel 210 (shown in FIG. 2) and can lie substantially flat against the first large spacer flap 224 and first small spacer flap 334. Additionally, the second outer panel 228 can be folded at about 90° relative to the second intermediate panel 220 at the second outer bend line 230. In example aspects, each of the first and second outer panels 224, 228 (first outer panel 224 shown in FIG. 2) can be oriented about parallel with the first partition wall 310 of the upper insert partition 130, and can be spaced from the first partition wall 310 by the first and second large spacer flaps 324, 330 (first large spacer flap 324 shown in FIG. 3). As such, the first and second outer panels 224, 228 can be spaced from the first partition wall 310 by the distance H_1 (shown in FIG. 2). According to example aspects, the first locking slot 232 (shown in FIG. 2) and second locking slot 234 can be configured to substantially align with the first locking cut-out 342 and the second locking cut-out 344 (shown in FIG. 3), respectively.

FIG. 8 illustrates a next step in the method, wherein the second auxiliary flap 250 can be folded towards the upper insert partition 130 at each of the third auxiliary bend line 254 (shown in FIG. 2) and the fourth auxiliary bend line 258. The second auxiliary slot 259 of the second auxiliary flap 250 can engage the first partition slot 320 of the upper insert partition 130 to retain the second auxiliary flap 250 in position relative to the upper insert partition 130. In this configuration, the third auxiliary section 252 can be oriented at about 90° relative to the second intermediate panel 220 (shown in FIG. 2), and the fourth auxiliary section 256 can be oriented at about 90° relative to the third auxiliary section 252. The first connecting panel 282 and second connecting panel 284 can then be folded towards the upper insert partition 130 at the first connecting bend lines 286*a*,288*a* (shown in FIG. 2). The first connecting panel 282 and second connecting panel 284 can abut the first auxiliary section 242 and third auxiliary section 252, respectively, of the upper insert body 120. As such, the first and second connecting panels 282, 284 can be oriented at about 90° relative to the lower base panel 210 (shown in FIG. 2). The upper base panel 270 can then be folded relative to the first and second connecting panels 282, 284 at the first and second connecting bend lines 286*b*, 288*b* towards the upper insert partition 130.

FIG. 9 illustrates folding the upper base panel 270 towards the upper insert partition 130. According to example aspects, before or during folding the upper base panel 270, the first locking tab 276 (shown in FIG. 2) and the second locking tab 278 can be folded relative to the upper base panel 270 at the first tab bend line 277 (shown in FIG. 2) and the second tab bend line 279, respectively. The first and second locking tabs 276, 278 can be oriented at about 90° relative to the upper base panel 270 and can be configured to align with the first locking slot 232 (shown in FIG. 2) and the second locking slot 234, respectively. As the upper base panel 270 is folded towards the upper insert partition 130, the first and second locking tabs 276, 278 can be inserted through the first and second locking slots 232, 234 to retain the upper bottle insert 110 in an assembled configuration. The first and second locking tabs 276, 278 can also engage the first and second locking cut-outs 342, 344, respectively, in the assembled configuration. In example aspects, the upper base panel 270 can face and can be oriented about parallel with the first partition wall 310 of the upper insert partition 130, as shown. Furthermore, in example aspects, the upper base panel 270 may be configured to lie against the first outer panel 224 and second outer panel 228 of the upper insert body 120. The first end flap 350 and the second end flap 354 can then be folded away from one another at the first end bend line 352 and the second end bend line 356 (shown in FIG. 3), respectively, such that they can be oriented substantially parallel to the corresponding first partition wall 310 and second partition wall 315 (shown in FIG. 3).

In the assembled configuration, the upper base panel 270 can be spaced from the first partition wall 310 by the first and second large spacer flaps 324, 330 (shown in FIG. 3) at the height H_1, and the lower base panel 210 (shown in FIG. 2) can be spaced from the second partition wall 315 (shown in FIG. 3) by the first and second small spacer flaps 334, 338 at the height H_2. As described above, the height H_1 can be greater than the height H_2. As such, in instances wherein a taller one of the bottles 180 (shown in FIG. 1) is being restrained within the bottle packaging 170 by the bottle insert assembly 100 (shown in FIG. 1), the upper bottle insert 110 (shown in FIG. 1) can be oriented such that the upper portion 182 (shown in FIG. 1) of the bottle 180 can extend through the second upper bottle opening 132*b* formed through the upper base panel 270 to abut the first partition wall 310. In instances wherein a shorter one of the bottles 180 is being restrained by the bottle insert assembly 100, the upper bottle insert 110 can be oriented such that the upper portion 182 of the bottle can extend through the first upper bottle opening 132*b* formed through the lower base panel 210 to abut the second partition wall 315. Furthermore, when the upper bottle insert 110 is assembled within the interior cavity 178 (shown in FIG. 1) of the bottle packaging 170, either the upper base panel 270 or the lower base panel 210 can abut a corresponding one of the sidewalls 180 (shown in FIG. 1), depending upon the orientation of the upper bottle insert 110.

FIGS. 10 and 11 illustrates the lower insert body 150 and the lower insert partition 1160, respectively, of the lower bottle insert 140 (shown in FIG. 1) in blank form, according to example aspects. The lower insert body 150 and lower insert partition 1160 can be substantially similar to the upper insert body 120 and upper insert partition 130 of the upper bottle insert 110 (110, 120, 130 shown in FIG. 1), respectively. However, the size, shape, and dimensions of various components of the lower bottle insert 140 can vary and/or the lower bottle insert 140 can comprise more or fewer components than the upper bottle insert 110. Furthermore, the lower insert body 150 and the lower insert partition 1160 can be assembled to define the lower bottle insert 140 by

substantially the same method as described above for assembling the upper bottle insert **110** (shown in FIG. **1**).

Referring to FIG. **10**, as shown, the lower insert body **150** can define an overall width W_3 and an overall length L_3. In a particular example, aspect, the width W_3 can be about 11.125" and the length L_3 can be about 13.4375". In other aspects, the lower insert body **150** can define any other suitable dimensions. The lower insert body **150** can comprise a lower base panel **1010** and an upper base panel **1070**. The lower insert body **150** can further comprise first and second intermediate panels **1018**, **1022**, first and second outer panels **1024**, **1028**, and first and second auxiliary flaps **1040**, **1050**. The first and second outer panels **1024**, **1028** can define first and second locking slots **1032**, **1034**, respectively, and the first and second auxiliary flaps **1040**, **1050** can define first and second auxiliary slots **1049**, **1059**, respectively. Additionally, first and second locking tabs **1076**, **1078** can extend from the upper base panel **1070**. However, unlike the upper insert body **120**, the lower insert body **150** does not comprise two connecting panels extending between the lower and upper base panels **1010**, **1070** with a gap formed therebetween; rather, the lower insert body **150** can comprise a singular connecting panel **1082** connecting the lower base panel **1010** to the upper base panel **1070**. Furthermore, as shown, the lower base panel **1010** can define a first one of the lower bottle openings **1062***a*, and the upper base panel **1070** can define a second one of the lower bottle openings **1062***b*. However, unlike the upper insert body **120**, the lower and upper base panels **1010**, **1070** do not define the bottle channels nor the channel tabs. The lower portion **1284** (shown in FIG. **12**) of a corresponding one of the bottles **180** (shown in FIG. **1**) can engage either of the first and second lower bottle openings **1062***a,b* by inserting the lower portion **1284** directly through the first or second lower bottle opening **1062***a,b*.

Referring to FIG. **11**, as shown, the lower insert partition **1160** can define an overall width W_4 and an overall length L_4. In a particular example, aspect, the width W_4 can be about 6.5625" and the length L_4 can be about 12.675". In other aspects, the lower insert partition **1160** can define any other suitable dimensions. As shown, the lower insert partition **1160** can comprise a first partition wall **1110** and a second partition wall **1115** hingedly connected to the first partition wall **1110** by a partition wall bend line **1116**. A first partition slot **1120** and a second partition slot **1122** can extend across the partition wall bend line **1116**. Opposing first and second spacer flaps **1124**, **1130** can extend from the first partition wall **1110**, and opposing first and second spacer flaps **1134**, **1138** can extend from the second partition wall **1115**. Each of the spacer flaps **1124**, **1130**, **1134**, **1138** can define a height H_3. In other aspects, the heights of the spacer flaps **1124**, **1130**, **1134**, **1138** may vary. Furthermore, each of the spacer flaps **1124**, **1130**, **1134**, **1138** can define a locking cut-out **1042**, as shown. A first end flap **1050** can extend from the first partition wall **1110**, and a second end flap **1054** can extend from the second partition wall **1115**.

As noted above, the lower insert body **150** and the lower insert partition **1160** can be assembled to define the lower bottle insert **140** by substantially the same method as described above for assembling the upper bottle insert **110** (shown in FIG. **1**). For example, the first partition wall **1110** can be folded towards the second partition wall **1115** at the partition wall bend line **1116**. The spacer flaps **1130**, **1138** can be folded away from one another, such that the spacer flap **1130** and spacer flap **1138** can be oriented about perpendicular to the first partition wall **1110** and second partition wall **1115** and about parallel with one another. The spacer flaps **1130**, **1138** can engage and lie substantially flat against the first intermediate panel **1018**. The first auxiliary flap **1040** can be folded towards the lower insert partition **1160**. The first auxiliary slot **1049** of the first auxiliary flap **1040** can engage the second partition slot **1122** to retain the first auxiliary flap **1040** in position relative to the lower insert partition **1160**.

The spacer flaps **1124**, **1134** can then be folded away from one another, such that the spacer flaps **1124**, **1134** can be oriented about perpendicular with the first and second partition walls **1110**, **1115** and about parallel with one another. The first outer panel **1024** can also be folded towards the lower insert partition **1160**, such that the first outer panel **1024** can be oriented at about 90° relative to the first intermediate panel **1018**. In a next step, the first intermediate panel **1018** can be folded towards the lower base panel **1010**. The spacer flaps **1134**, **1138** can extend between the lower base panel **1010** and the second partition wall **1115**, to space the second partition wall **1115** from the lower base panel **1010** by the height H_3. The second intermediate panel **1022** can then be folded towards the lower insert partition **1160**, such the second intermediate panel **1022** can lie substantially flat against the spacer flaps **1124**, **1134**. Additionally, the second outer panel **1028** can be folded at about 90° relative to the second intermediate panel **1022**. In example aspects, each of the first and second outer panels **1024**, **1028** can be oriented about parallel with the first partition wall **1110**, and can be spaced from the first partition wall **1110** by the height H_3. According to example aspects, the first locking slot **1032** and second locking slot **1034** can be configured to substantially align with a corresponding one of the locking cut-outs **1042**.

The second auxiliary flap **1050** can be folded towards the lower insert partition **1160**, and the second auxiliary slot **1059** can engage the first partition slot **1120** to retain the second auxiliary flap **1050** in position relative to the lower insert partition **1160**. The connecting panel **1082** can then be folded towards the lower insert partition **1160** and can be oriented at about 90° relative to the lower base panel **1010**. The upper base panel **1070** can then be folded relative to the connecting panels **1082** towards the lower insert partition **1160**. The first and second locking tabs **1076**, **1078** can be folded relative to the upper base panel **1070** and can be configured to align with the first and second locking slot **1032**, **1034**, respectively. As the upper base panel **1070** is folded towards the lower insert partition **1160**, the first and second locking tabs **1076**, **1078** can be inserted through the first and second locking slots **1032**, **1034** to retain the lower bottle insert **150** in an assembled configuration. The first and second locking tabs **1076**, **1078** can also engage the corresponding locking cut-outs **1042** in the assembled configuration. In example aspects, the upper base panel **1070** can face and can be oriented about parallel with the first partition wall **1110** and can be configured to lie against the first and second outer panels **1024**, **1028**. In the assembled configuration, the upper base panel **1070** can be spaced from the first partition wall **1110** by the spacer flaps **1124**, **1130** at the height H_3. The first end flap **1050** and the second end flap **1054** can then be folded away from one another, such that they can be oriented substantially parallel to the corresponding first partition wall **1110** and second partition wall **1115**. FIG. **12** illustrates the assembled lower bottle insert **140** with the lower portion **1284** of a corresponding one of the bottles **180** received through one of the lower bottle openings **1062**. For example, in the present aspect, the lower portion **1284** of the bottle **180** can extend through the extend through the first lower bottle opening **1062***a* formed through the lower

base panel **1010** to abut the section partition wall **1115** (shown in FIG. **11**). In other aspects, the lower portion **1284** of the bottle **180** can extend through the second lower bottle opening **1062***b* (shown in FIG. **10**) formed through the upper base panel **1070** (shown in FIG. **10**) to abut the first partition wall **1110** (shown in FIG. **11**). Moreover, when the lower bottle insert **140** is assembled within the interior cavity **178** (shown in FIG. **1**) of the bottle packaging **170** (shown in FIG. **1**), either the upper base panel **1170** or the lower base panel **1110** can abut a corresponding one of the sidewalls **180** (shown in FIG. **1**), depending upon the orientation of the lower bottle insert **140**.

One should note that conditional language, such as, among others, "can," "could," "might," or "may," unless specifically stated otherwise, or otherwise understood within the context as used, is generally intended to convey that certain embodiments include, while other embodiments do not include, certain features, elements and/or steps. Thus, such conditional language is not generally intended to imply that features, elements and/or steps are in any way required for one or more particular embodiments or that one or more particular embodiments necessarily include logic for deciding, with or without user input or prompting, whether these features, elements and/or steps are included or are to be performed in any particular embodiment.

It should be emphasized that the above-described embodiments are merely possible examples of implementations, merely set forth for a clear understanding of the principles of the present disclosure. Any process descriptions or blocks in flow diagrams should be understood as representing modules, segments, or portions of code which include one or more executable instructions for implementing specific logical functions or steps in the process, and alternate implementations are included in which functions may not be included or executed at all, may be executed out of order from that shown or discussed, including substantially concurrently or in reverse order, depending on the functionality involved, as would be understood by those reasonably skilled in the art of the present disclosure. Many variations and modifications may be made to the above-described embodiment(s) without departing substantially from the spirit and principles of the present disclosure. Further, the scope of the present disclosure is intended to cover any and all combinations and sub-combinations of all elements, features, and aspects discussed above. All such modifications and variations are intended to be included herein within the scope of the present disclosure, and all possible claims to individual aspects or combinations of elements or steps are intended to be supported by the present disclosure.

That which is claimed is:

1. A method of packaging a bottle comprising:

providing a bottle packaging assembly comprising a first bottle insert defining a first bottle opening and a second bottle insert defining a second bottle opening, wherein the first bottle insert and the second bottle insert are arranged within an interior cavity of a bottle packaging;

receiving a second portion of the bottle through the second bottle opening; and

receiving a first portion of the bottle through the first bottle opening;

wherein:

the first bottle insert defines a first base panel and a first partition wall spaced from and substantially parallel to the first base panel;

the first base panel defines the first bottle opening; and

the method further comprises confronting a first end of the bottle with the first partition wall;

the first base panel defines a bottle channel extending from the first bottle opening to a panel edge of the first base panel; and

receiving the first portion of the bottle through the first bottle opening comprising sliding the first portion of the bottle through the bottle channel from the panel edge to the first bottle opening.

2. The method of claim **1**, wherein:

the first bottle insert further comprises a first channel tab and a second channel tab hingedly connected to the first base panel;

the first channel tab and the second channel tab extend towards one another and substantially cover the bottle channel; and

sliding the first portion of the bottle through the bottle channel comprising folding each of the first channel tab and the second channel tab away from the bottle channel.

3. A method of assembling a bottle packaging assembly comprising:

folding a first bottle insert to an assembled configuration, the first bottle insert comprising a first base panel, the first base panel defining a first bottle opening configured to receive a first portion of a bottle;

folding a second bottle insert to an assembled configuration, the second bottle insert comprising a second base panel, the second base panel defining a second bottle opening configured to receive a second portion of a bottle;

arranging the first bottle insert proximate to a first sidewall of a sidewall enclosure of a bottle packaging; and

arranging the second bottle insert proximate to a second sidewall of the sidewall enclosure, wherein the second sidewall is opposite the first sidewall, and wherein the second bottle insert is longitudinally aligned with the first bottle insert;

wherein the first bottle insert and the second bottle insert together define a first bottle insert assembly, and wherein the method further comprises arranging a second bottle insert assembly laterally side-by-side with the first bottle insert assembly.

4. The method of claim **3**, wherein folding the first bottle insert to an assembled configuration comprises assembling a first insert partition with a first insert body, the first insert body defining the first base panel, the first insert partition defining a first partition wall spaced from and substantially parallel to the first base panel.

5. The method of claim **4**, wherein folding the first bottle insert to the assembled configuration further comprises folding a spacer flap of the first insert partition to be perpendicular to the first partition wall and confronting the first base panel with a distal end of the spacer flap.

6. The method of claim **3**, wherein the first base panel is an inner base panel, and wherein folding the first bottle insert to the assembled configuration further comprises:

folding a first connecting panel of the first bottle insert to be perpendicular to the inner base panel; and

folding an outer base panel of the first bottle insert to be perpendicular to the first connecting panel and parallel to the inner base panel, wherein the first connecting panel extends between the inner base panel and the outer base panel.

7. The method of claim **6**, wherein folding the first bottle insert to the assembled configuration further comprises:

folding an intermediate panel assembly of the of the first bottle insert to extend between the inner base panel and

the outer base panel, wherein the intermediate panel assembly defines a locking slot; and

engaging a locking tab of the first bottle insert with the locking slot to retain the first bottle insert in the assembled configuration.

8. A method of assembling a bottle packaging assembly comprising:

folding a first bottle insert to an assembled configuration, the first bottle insert comprising a first base panel, the first base panel defining a first bottle opening configured to receive a first portion of a bottle;

folding a second bottle insert to an assembled configuration, the second bottle insert comprising a second base panel, the second base panel defining a second bottle opening configured to receive a second portion of a bottle;

arranging the first bottle insert proximate to a first sidewall of a sidewall enclosure of a bottle packaging; and

arranging the second bottle insert proximate to a second sidewall of the sidewall enclosure, wherein the second sidewall is opposite the first sidewall, and wherein the second bottle insert is longitudinally aligned with the first bottle insert;

wherein folding the first bottle insert to an assembled configuration comprises assembling a first insert partition with a first insert body, the first insert body defining the first base panel, the first insert partition defining a first partition wall spaced from and substantially parallel to the first base panel; and

wherein folding the first bottle insert to the assembled configuration further comprises folding a spacer flap of the first insert partition to be perpendicular to the first partition wall and confronting the first base panel with a distal end of the spacer flap.

9. A method of assembling a bottle packaging assembly comprising:

folding a first bottle insert to an assembled configuration, the first bottle insert comprising a first base panel, the first base panel defining a first bottle opening configured to receive a first portion of a bottle;

folding a second bottle insert to an assembled configuration, the second bottle insert comprising a second base panel, the second base panel defining a second bottle opening configured to receive a second portion of a bottle;

arranging the first bottle insert proximate to a first sidewall of a sidewall enclosure of a bottle packaging; and

arranging the second bottle insert proximate to a second sidewall of the sidewall enclosure, wherein the second sidewall is opposite the first sidewall, and wherein the second bottle insert is longitudinally aligned with the first bottle insert;

wherein:

the first base panel is an inner base panel; and

folding the first bottle insert to the assembled configuration further comprises:

folding a first connecting panel of the first bottle insert to be perpendicular to the inner base panel; and

folding an outer base panel of the first bottle insert to be perpendicular to the first connecting panel and parallel to the inner base panel, wherein the first connecting panel extends between the inner base panel and the outer base panel.

10. The method of claim **9**, wherein folding the first bottle insert to the assembled configuration further comprises:

folding an intermediate panel assembly of the of the first bottle insert to extend between the inner base panel and the outer base panel, wherein the intermediate panel assembly defines a locking slot; and

engaging a locking tab of the first bottle insert with the locking slot to retain the first bottle insert in the assembled configuration.

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